

10/692129

Hit List

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Search Results - Record(s) 31 through 36 of 36 returned.

☐ 31. Document ID: US 5774826 A

L47: Entry 31 of 36

File: USPT

Jun 30, 1998

US-PAT-NO: 5774826

DOCUMENT-IDENTIFIER: US 5774826 A

TITLE: Optimization of survey coordinate transformations

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Footnote	Drawings
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☐ 32. Document ID: US 5614913 A

L47: Entry 32 of 36

File: USPT

Mar 25, 1997

US-PAT-NO: 5614913

DOCUMENT-IDENTIFIER: US 5614913 A

TITLE: Optimization of survey coordinate transformations

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Footnote	Drawings
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☐ 33. Document ID: US 5581259 A

L47: Entry 33 of 36

File: USPT

Dec 3, 1996

US-PAT-NO: 5581259

DOCUMENT-IDENTIFIER: US 5581259 A

TITLE: Life for old maps

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Footnote	Drawings
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☐ 34. Document ID: US 5559707 A

L47: Entry 34 of 36

File: USPT

Sep 24, 1996

US-PAT-NO: 5559707
DOCUMENT-IDENTIFIER: US 5559707 A

TITLE: Computer aided routing system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Drawings
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☐ 35. Document ID: US 5179385 A

L47: Entry 35 of 36

File: USPT

Jan 12, 1993

US-PAT-NO: 5179385
DOCUMENT-IDENTIFIER: US 5179385 A

TITLE: Visual navigation aid with point of interest feature

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Drawings
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☐ 36. Document ID: US 4862374 A

L47: Entry 36 of 36

File: USPT

Aug 29, 1989

US-PAT-NO: 4862374
DOCUMENT-IDENTIFIER: US 4862374 A

TITLE: Navigation plotting system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Drawings
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
((map\$ or translat\$ or conver\$ or transform\$) with pixel\$) same (location\$ or address\$) and navigat\$ and (((coordinat\$ or latitude\$ or longitu\$) same (waypoint\$ or "way-point"))	36

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L47: Entry 26 of 36

File: USPT

Jun 17, 2003

US-PAT-NO: 6581000

DOCUMENT-IDENTIFIER: US 6581000 B2

TITLE: Position location system and method

DATE-ISSUED: June 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hills; Alexander H.	Palmer	AK		
Schlegel; Jon P.	Vienna	VA		
Rappard; Mitchell A.	Clifton	NJ		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Carnegie Mellon University	Pittsburgh	PA			02

APPL-NO: 09/754604 [\[PALM\]](#)

DATE FILED: January 4, 2001

INT-CL-ISSUED: [07] G01G 21/26

INT-CL-CURRENT:

TYPE IPC	DATE
CIPS G01 C 21/10	20060101
CIPS G01 C 22/00	20060101
CIPS G01 C 21/12	20060101

US-CL-ISSUED: 701/207; 701/200, 73/178R, 340/988

US-CL-CURRENT: [701/207](#); [340/988](#), [701/200](#), [73/178R](#)

FIELD-OF-CLASSIFICATION-SEARCH: 701/207, 701/200, 701/208, 701/211, 701/213, 73/178R, 340/988, 340/990

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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PAT-NO

ISSUE-DATE

PATENTEE-NAME

US-CL

<input type="checkbox"/>	<u>4053755</u>	October 1977	Sherrill	
<input type="checkbox"/>	<u>4866617</u>	September 1989	Matsuda et al.	180/169
<input type="checkbox"/>	<u>5075693</u>	December 1991	McMillan et al.	
<input type="checkbox"/>	<u>5402365</u>	March 1995	Kozikaro et al.	
<input type="checkbox"/>	<u>5469158</u>	November 1995	Morita	
<input type="checkbox"/>	<u>5583776</u>	December 1996	Levi et al.	701/200
<input type="checkbox"/>	<u>5590604</u>	January 1997	Lund	104/124
<input type="checkbox"/>	<u>5598783</u>	February 1997	Lund	104/124
<input type="checkbox"/>	<u>5687136</u>	November 1997	Borenstein	367/116
<input type="checkbox"/>	<u>5848373</u>	December 1998	DeLorme et al.	340/990
<input type="checkbox"/>	<u>5917449</u>	June 1999	Sanderford et al.	
<input type="checkbox"/>	<u>5977885</u>	November 1999	Watanabe	340/988
<input type="checkbox"/>	<u>5983161</u>	November 1999	Lemelson et al.	340/436
<input type="checkbox"/>	<u>6035253</u>	March 2000	Hayashi et al.	340/995
<input type="checkbox"/>	<u>6047235</u>	April 2000	Hiyokawa et al.	340/988
<input type="checkbox"/>	<u>6125326</u>	September 2000	Ohmura et al.	342/457
<input type="checkbox"/>	<u>6132391</u>	October 2000	Onari et al.	600/595
<input type="checkbox"/>	<u>6167346</u>	December 2000	Fukawa	342/357.13
<input type="checkbox"/>	<u>6218961</u>	April 2001	Gross et al.	246/122R
<input type="checkbox"/>	<u>6240366</u>	May 2001	Nagatsuma et al.	342/357.01
<input type="checkbox"/>	<u>6246362</u>	June 2001	Tsubata et al.	342/357.08
<input type="checkbox"/>	<u>6259990</u>	July 2001	Shojima et al.	340/825.19
<input type="checkbox"/>	<u>6275773</u>	August 2001	Lemelson et al.	340/436
<input type="checkbox"/>	<u>6289278</u>	September 2001	Endo et al.	340/988
<input type="checkbox"/>	<u>6330503</u>	December 2001	Sharp et al.	173/1
<input type="checkbox"/>	<u>6336072</u>	January 2002	Takayama et al.	340/995
<input type="checkbox"/>	<u>6351706</u>	February 2002	Morimoto et al.	340/995
<input type="checkbox"/>	<u>6356835</u>	March 2002	Hayashi et al.	340/988
<input type="checkbox"/>	<u>6356838</u>	March 2002	Paul	701/201
<input type="checkbox"/>	<u>6405123</u>	June 2002	Rennard et al.	340/988
<input type="checkbox"/>	<u>6442507</u>	August 2002	Skidmore et al.	

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO
0 060 361
09036609

PUBN-DATE
September 1982
September 1998

COUNTRY
EP
EP

CLASS

ART-UNIT: 3661

PRIMARY-EXAMINER: Cuchlinski, Jr.; William A.

ASSISTANT-EXAMINER: Hernandez; Olga

ATTY-AGENT-FIRM: Kirkpatrick & Lockhart LLP

ABSTRACT:

A system for determining a position of a user. The system includes a distance sensor in communication with a position tracking device. The distance sensor is for detecting movement by the user, and the position tracking device is for determining the position of the user based on detection of movement by the user and a relative change in direction input from the user.

10 Claims, 8 Drawing figures

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L47: Entry 30 of 36

File: USPT

Sep 1, 1998

US-PAT-NO: 5802492

DOCUMENT-IDENTIFIER: US 5802492 A

TITLE: Computer aided routing and positioning system

DATE-ISSUED: September 1, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
DeLorme; David M.	Yarmouth	ME		
Gray; Keith A.	Dresden	ME		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
DeLorme Publishing Company, Inc.	Yarmouth	ME			02

APPL-NO: 08/661600 [PALM]

DATE FILED: June 11, 1996

PARENT-CASE:

CROSS REFERENCE TO RELATED PATENT APPLICATION This patent application is a continuation-in-part (CIP) of the David M. DeLorme et al U.S. patent application Ser. No. 08/381,214 filed Jan. 31, 1995, now U.S. Pat. No. 5,559,707 for COMPUTER AIDED ROUTING SYSTEM which is a CIP of the David M. DeLorme et al U.S. patent application Ser. No. 08/265,327 filed Jun. 24, 1994, now abandoned for COMPUTER AIDED MAP LOCATION SYSTEM and the contents of these related patent applications are incorporated herein by reference.

INT-CL-ISSUED: [06] G01C 21/00, G08G 1/123

INT-CL-CURRENT:

TYPE IPC	DATE
CIPS <u>G08 G 1/0969</u>	20060101
CIPS <u>G06 Q 10/00</u>	20060101
CIPS <u>G01 C 21/36</u>	20060101
CIPS <u>G01 C 21/34</u>	20060101
CIPS <u>G09 B 29/10</u>	20060101

US-CL-ISSUED: 701/200; 701/201, 701/208, 701/211, 701/213, 340/990, 340/995

US-CL-CURRENT: 455/456.5; 340/990, 340/995.23, 340/995.24, 701/201, 701/208, 701/211, 701/213

FIELD-OF-CLASSIFICATION-SEARCH: 364/443, 364/444.1; 364/444.2, 364/449.2, 364/449.3, 364/449.4, 364/449.5, 364/449.6, 364/449.7, 340/990, 340/995, 340/991, 340/993, 342/357, 342/457

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5208756</u>	May 1993	Song	364/449.1
<input type="checkbox"/>	<u>5543789</u>	August 1996	Behr et al.	340/995
<input type="checkbox"/>	<u>5559707</u>	September 1996	DeLorme et al.	364/443

ART-UNIT: 364

PRIMARY-EXAMINER: Nguyen; Tan Q.

ATTY-AGENT-FIRM: Caseiro; Chris A. Bohan; Thomas L.

ABSTRACT:

A Computer Aided Routing and Positioning System (CARPS) determines a route along selected waypoints that include a travel origin and a travel destination and intermediate waypoints therebetween. The selected waypoints may be uploaded to or downloaded from various geocoding devices that utilize the Global Positioning System (GPS). A CARPS database incorporates travel information selected from a range of multimedia sources about the transportation routes, waypoints, and geographically locatable points of interest (POIs) selected by the user along the travel route. The CARPS software permits user selection of specified POI types within a user-defined region of interest and user selection of particular POIs from the selected types within the region of interest. The transportation routes, waypoints, POIs and region of interest are identifiable in the computer by coordinate locations of a selected geographical coordinate system. The CARPS software is constructed to present a user-customized travelog for preview on the computer display of the user-defined travel route. The travel planner can preview on the computer display a multimedia travelog particularly customized for the user-defined travel route including multimedia information on the transportation routes, waypoints, and POIs selected by the user. The user can engage in an iterative trip planning process of revising the route and previewing travelogs of revised travel routes until a satisfactory travel route is determined. Hardcopies of customized travel maps of the user-defined travel route can be used in conjunction with a GPS device which has been uploaded with selected waypoint data.

50 Claims, 35 Drawing figures

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L47: Entry 32 of 36

File: USPT

Mar 25, 1997

US-PAT-NO: 5614913

DOCUMENT-IDENTIFIER: US 5614913 A

TITLE: Optimization of survey coordinate transformations

DATE-ISSUED: March 25, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nichols; Mark	Sunnyvale	CA		
McBride; Kenneth W.	Los Altos	CA		
Viney; Ian	St. Martins			NZ
Taylor; Arthur	Basingstoke			GB
Jackson; Richard	St. Albans			NZ
Schipper; John F.	Palo Alto	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Trimble <u>Navigation</u>	Sunnyvale	CA			02

APPL-NO: 08/476844 [PALM]

DATE FILED: June 7, 1995

INT-CL-ISSUED: [06] G01S 5/02

INT-CL-CURRENT:

TYPE	IPC	DATE
CIPS	<u>G01 C 15/00</u>	20060101
CIPS	<u>G01 C 21/00</u>	20060101

US-CL-ISSUED: 342/357

US-CL-CURRENT: 342/357.12

FIELD-OF-CLASSIFICATION-SEARCH: 342/357, 342/352, 364/731, 364/815
See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> 5307289	April 1994	Harris	364/516

ART-UNIT: 222

PRIMARY-EXAMINER: Issing; Gregory C.

ATTY-AGENT-FIRM: Schipper; John

ABSTRACT:

A system for selecting an optimal transformation $T(G2;G1)$ between a first ellipsoid $E1$ (e.g., WGS 84) in a first global coordinate system $G1$, relative to which the survey measurements are made, and a second ellipsoid $E2$ in a second global coordinate system $G2$. A set of location coordinates $(x'.sub.m,2, y'.sub.m,2, z'.sub.m,2)$ for M previously-surveyed locations, numbered $m=1, \dots, M$, and a set of location coordinates $(x'.sub.n,1, y'.sub.n,1, z'.sub.n,1)$ for N presently-surveyed locations, numbered $n=1, \dots, N$ ($M \leq N$) are provided, where the first M presently-surveyed locations coincide with the M previously-surveyed locations. The transformation is chosen so that the images of the location coordinates $(x'.sub.n,1, y'.sub.n,1, z'.sub.n,1)$ for $n=1, \dots, M$ under $T(G2;G1)$ are as close as possible to the corresponding location coordinates $(x'.sub.m,2, y'.sub.m,2, z'.sub.m,2)$ for $m=1, \dots, M$. Given an ellipsoid and a selected survey plane τ_0 that is tangent to the ellipsoid at a selected location, a set of selected locations can be surveyed with reference to the ellipsoid, and the location coordinates of each such surveyed location can be mapped into a corresponding "survey location," defined by reference to a local coordinate system that uses the survey plane τ_0 as its base. These transformations and projections are determined and optimized in real time, while a surveyor is measuring the presently-surveyed locations in the field. The instruments used for surveying may be part of a location determination system, such as a Global Positioning System, a Global Orbiting Navigational Satellite System or Loran.

15 Claims, 8 Drawing figures

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L47: Entry 36 of 36

File: USPT

Aug 29, 1989

US-PAT-NO: 4862374

DOCUMENT-IDENTIFIER: US 4862374 A

TITLE: Navigational plotting system

DATE-ISSUED: August 29, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ziemann; Erich T.	Middleton	WI	53562	

APPL-NO: 07/193610 [PALM]

DATE FILED: May 13, 1988

INT-CL-ISSUED: [04] G06F 15/50

INT-CL-CURRENT:

TYPE	IPC	DATE
CIPS	<u>G09 B</u> <u>29/10</u>	20060101
CIPS	<u>G01 C</u> <u>21/22</u>	20060101
CIPS	<u>G01 C</u> <u>21/20</u>	20060101

US-CL-ISSUED: 364/449; 342/452, 340/995

US-CL-CURRENT: 701/200; 340/995.26, 342/452, 701/207, 701/225, D10/65

FIELD-OF-CLASSIFICATION-SEARCH: 364/443, 364/444, 364/449, 364/450, 364/452, 342/452, 340/990, 340/995, 73/178R

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>3967098</u>	June 1976	Harnagel et al.	364/443
<input type="checkbox"/>	<u>4053893</u>	October 1977	Boyer	340/995
<input type="checkbox"/>	<u>4135190</u>	January 1979	Dimatteo et al.	342/452
<input type="checkbox"/>	<u>4192002</u>	March 1980	Draper	364/449

<input type="checkbox"/>	<u>4393448</u>	July 1983	Dunn et al.	364/449
<input type="checkbox"/>	<u>4400780</u>	August 1983	Nagao et al.	364/449
<input type="checkbox"/>	<u>4428057</u>	January 1984	Setliff et al.	364/449
<input type="checkbox"/>	<u>4468743</u>	August 1984	Dunn et al.	364/520
<input type="checkbox"/>	<u>4513378</u>	April 1985	Antkowiak	364/450
<input type="checkbox"/>	<u>4514810</u>	April 1985	Ito et al.	364/449
<input type="checkbox"/>	<u>4590570</u>	May 1986	Rader	364/452
<input type="checkbox"/>	<u>4660037</u>	April 1987	Nakamura	364/449

OTHER PUBLICATIONS

Brochure for Chartlink by Datamarine, Pocasset, MA, Undated.
 Advertisement for Mariner 300 Track Plotter from II Morrow, Inc., Undated.
 Page from Brochure, Navigational Products of Nav-Aids, date unknown.
 Specification DXL 6600 Loran See by Apelco, date unknown.
 MasterNav 4000 by Admiral Marine Electronics, Inc., Advertisement in Ocean
Navigator No. 20, date unknown.
 Nav-Add 2000 by Si-Tex, Advertisement in May, 1988 issue of Motor Boating &
 Sailing.
 NavGraphic by Trimble Navigation, advertisement in NMEA News, Mar./Apr. 1988.

ART-UNIT: 234

PRIMARY-EXAMINER: Chin; Gary

ATTY-AGENT-FIRM: Quarles & Brady

ABSTRACT:

A navigational plotter includes a light-transmissive LCD graphical display which serves as a window-like element in relation to a map placed underneath it. The map is calibrated to the plotter by moving a calibration cursor on the display to two known points diagonally displaced on the map, by manually entering the latitude and longitude of these known positions and by commanding the device to associate each point with its respective longitude and latitude. Navigational positions and navigational paths are then related to these points and displayed at the appropriate locations on the graphical display, where they appear over the appropriate locations on the underlying map.

7 Claims, 7 Drawing figures

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